Gigabit USB 2.0 Ethernet Adapter

User’s Manual

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Safety Instructions

Always read the safety instructions carefully

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious sign of breakage.
  - The equipment has not been working well or you cannot get it work according to User's Manual.

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1. Introduction

This Gigabit USB 2.0 Ethernet adapter is a cost effective solution that converts a USB port into a 10/100/1000Base-T Ethernet port. It enables low cost and affordable Gigabit Ethernet network connection to desktop, notebook PC, and embedded system using popular USB ports. No need to purchase an expensive Gigabit network interface card and to spare a PCI or Cardbus slot, just using your existing USB ports and you can upgrade your network connection speed.

Features

- Supports 10/100/1000 Mbps auto-sensing capability
- Supports Auto MDIX (straight and cross network cable auto-detection)
- USB specification 1.0, 1.1 and 2.0 compliant
- Supports USB full and high speed modes with bus power capability
- IEEE 802.3, 802.3u, and 802.3ab (10Base-T, 100Base-TX, and 1000Base-T) compatible
- Supports both full-duplex and half-duplex operation in Fast Ethernet
- Supports Jumbo packet of up to 9KB
- Supports suspend mode and remote wakeup via link-up and magic packet
- Plug and Play Installation

Package Contents

Before installation, please check the items of the package.

- Gigabit USB 2.0 Ethernet Adapter x1
- Driver CD x1
- Quick Installation Guide x1

System Requirements

- Pentium III 800MHz or faster PC with USB port
- 256 MB RAM or more
- Windows® 98SE/ME/2000/XP

LED Status

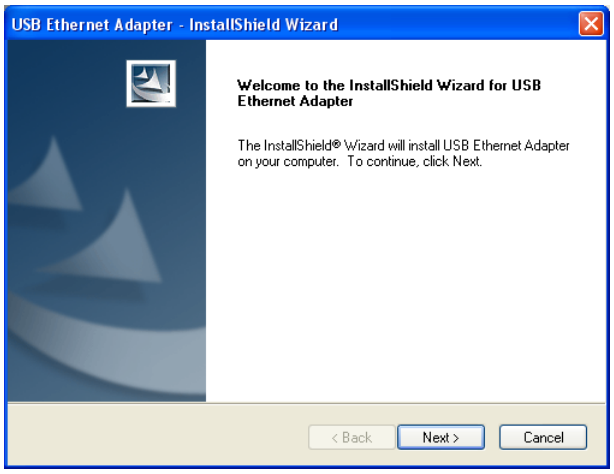
LED	Color	Status	Description
Link	Green	Off	Link is not established.
		On	Link is established.
1000Mbps	Green	Off	Link is not established Link to 10/100Mbps network.
		On	Link to 1000Mbps network.
		Blinking	There is 1000Mbps traffic flow over the network.

2. Installation

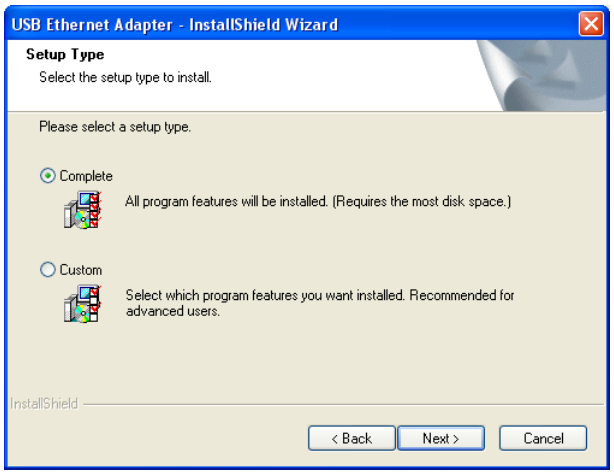
Driver Installation

Note: DO NOT connect the Ethernet adapter to your computer before completing the driver installation.

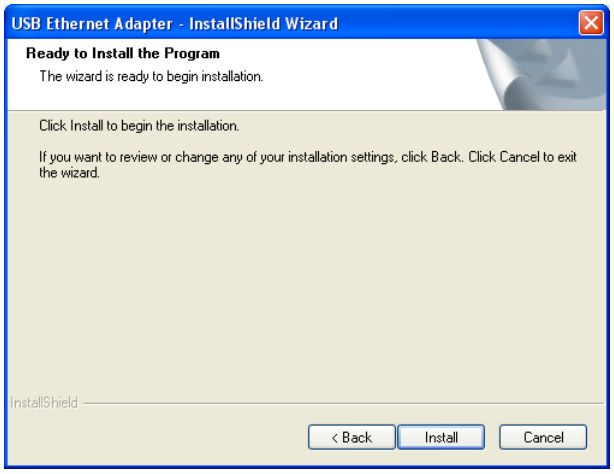
1. Insert the provided CD into your CD-ROM drive. The setup program will start automatically. If not, locate and double-click the **Setup.exe** file in the **Driver** folder to launch the setup program.


USB Ethernet Adapter - InstallShield Wizard
Welcome to the InstallShield Wizard for USB Ethernet Adapter
The InstallShield® Wizard will install USB Ethernet Adapter on your computer. To continue, click Next.
< Back
Next >
Cancel

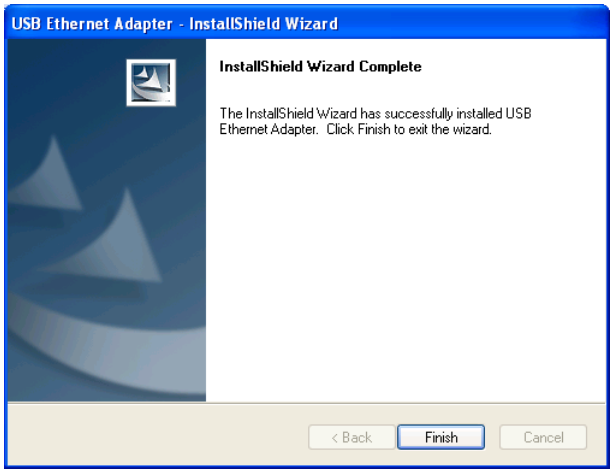
2. Select **Complete** and click **Next**.


USB Ethernet Adapter - InstallShield Wizard
Setup Type
Select the setup type to install.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Select which program features you want installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

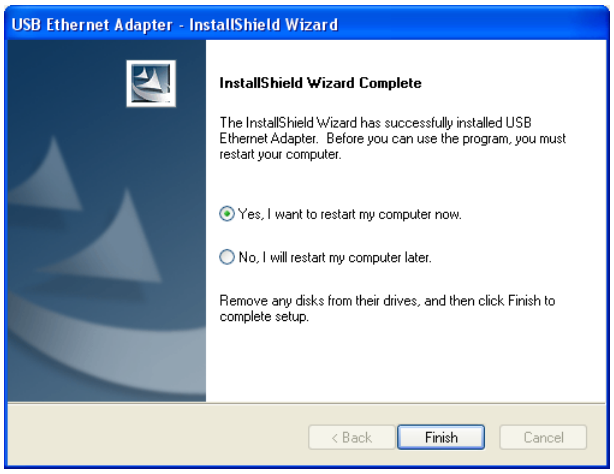
3. Click **Install** to start the installation.


USB Ethernet Adapter - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

4. Click **Finish** when the installation is complete.


USB Ethernet Adapter - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB Ethernet Adapter. Click Finish to exit the wizard.
< Back
Finish
Cancel

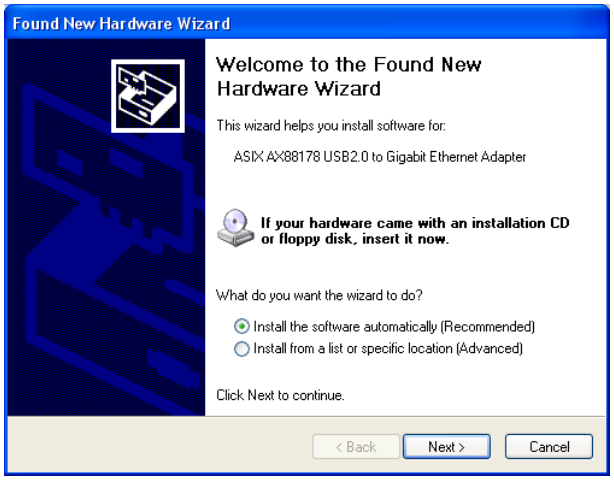
5. Select **Yes, I want to restart my computer now** and click **Finish** to reboot your computer.


USB Ethernet Adapter - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB Ethernet Adapter. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

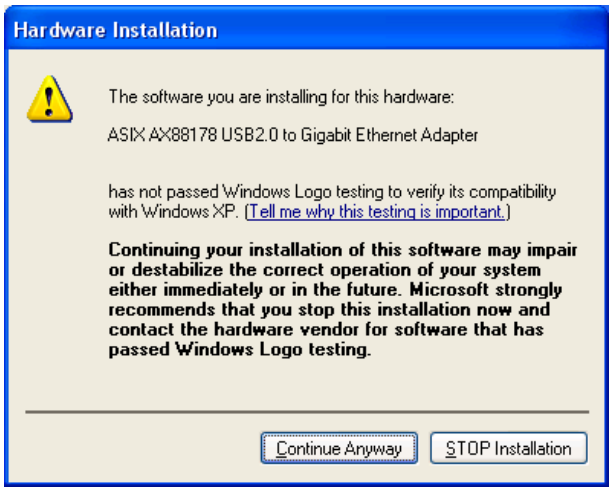
6. After reboot, connect the Ethernet adapter's USB end to a free USB port of your computer. At this stage, different situations may occur according to your operation system. Follow the instructions below to complete the installation.

Windows XP

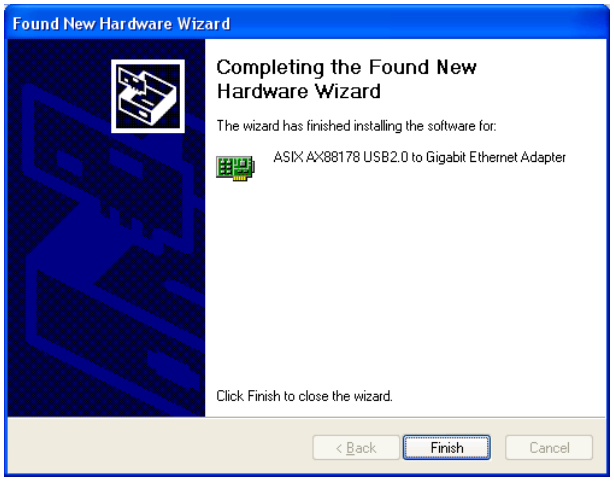
1. When the **Found New Hardware Wizard** screen appears, select **Install the software automatically (Recommended)** and click **Next**.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
ASIX AX88178 USB2.0 to Gigabit Ethernet Adapter
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

2. If compatibility message appears, just click **Continue Anyway**.

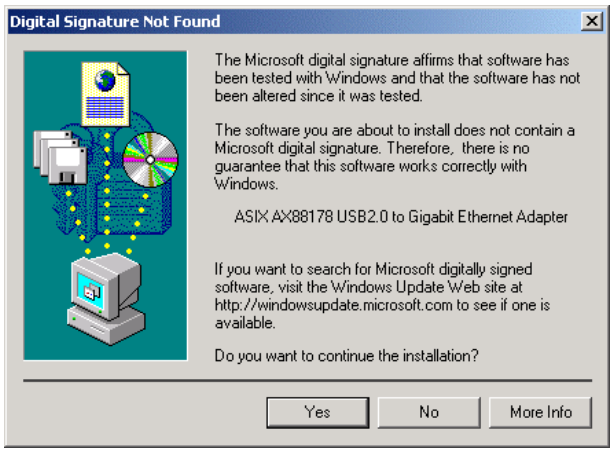

Hardware Installation
The software you are installing for this hardware:
ASIX AX88178 USB2.0 to Gigabit Ethernet Adapter
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

3. Click **Finish** to complete the installation.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
ASIX AX88178 USB2.0 to Gigabit Ethernet Adapter
Click Finish to close the wizard.
< Back
Finish
Cancel

Windows 2000

If **Digital Signature Not Found** window appears, just click **Yes**.

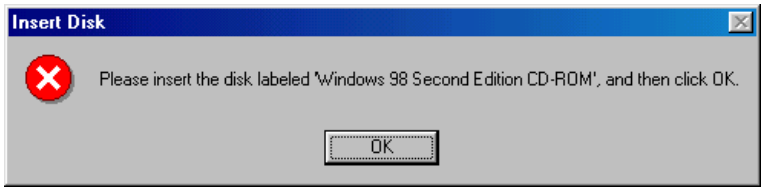

Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
ASIX AX88178 USB2.0 to Gigabit Ethernet Adapter
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

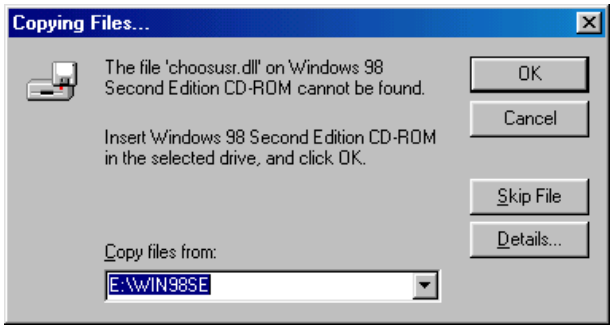
Windows ME

Just wait the system to complete the installation.

Windows 98SE

Upon your USB device connection, if the system prompts you for the Windows 98SE CD-ROM, click **OK**. Remove the provided CD and insert the Windows 98SE CD-ROM. Then click **OK** again.



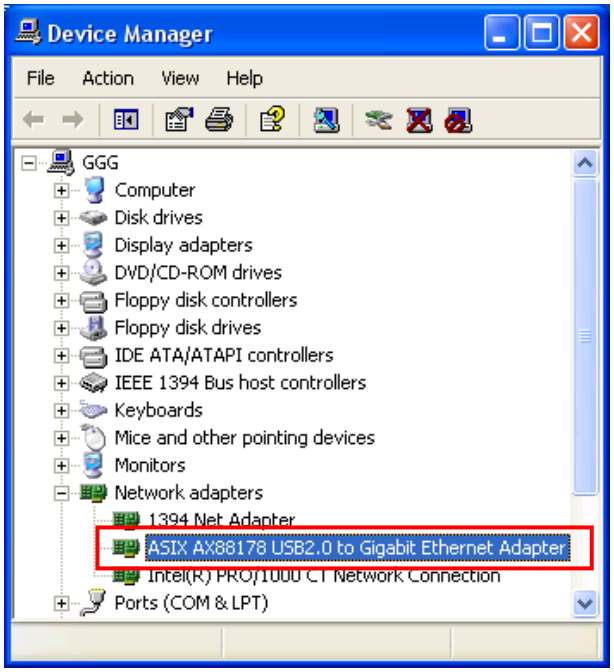

Copying Files...
The file 'choosusr.dll' on Windows 98 Second Edition CD-ROM cannot be found.
Insert Windows 98 Second Edition CD-ROM in the selected drive, and click OK.
OK
Cancel
Skip File
Details...
Copy files from:
E:\WIN98SE

Important: Once the above coyping files process is done, you must manually restart your computer to ensure the complete installaton. Otherwise some services are not yet installed and the network adapter will not function properly.

Verifying the Driver Installation in Windows

To verify your Ethernet adapter installation, select **Control Panel** > **System** > (**Hardware**) > **Device Manager**. In the **Network adapters** group, a string similar to **USB2.0 to Gigabit Ethernet Adapter** should be displayed.

If there is a question or exclamation mark next to that item, then the driver is not properly installed. Please delete the item and repeat the installation steps.

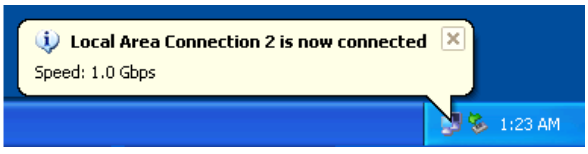


*The example screenshot is taken from Windows XP.

Connecting to a Network

Now you can connect your network to the device's LAN port. The LAN port supports Auto-MDIX feature. It eliminates the need to use crossover cables.

Upon your connection, a message pops up in the notification area indicating your connection speed.



The adapter's AutoSense feature can automatically detect the network's maximum line speed. To have a 1000Mbps connection, your network device (e.g., switch, router or DSL modem) must also support 1000Mbps.

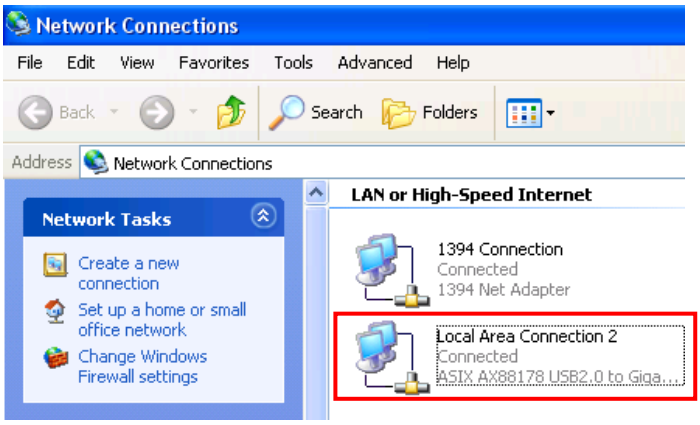
Configuring Network Settings

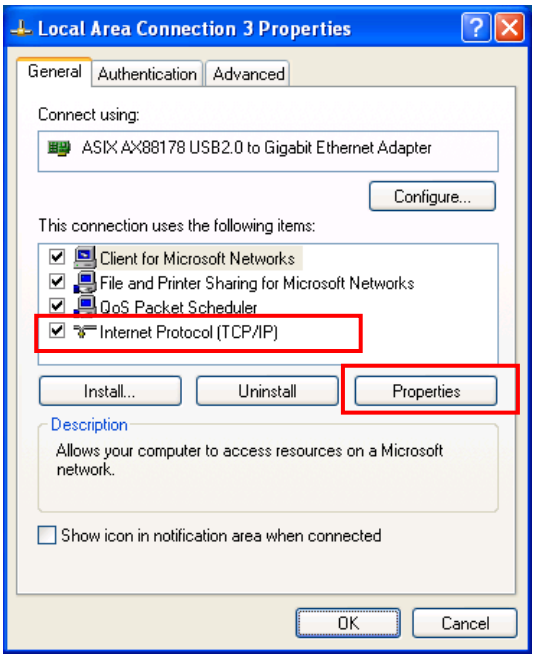
You should configure your Ethernet adapter as required according to your network environment. If you are unsure about the settings, consult your network administrator for assistance. The following describes how to launch the network settings window for your Ethernet adapter.

Windows XP/2000

After the installation, a local area connection icon is automatically created for your Ethernet adapter in the **Network Connections** folder. You can access **Network Connections** folder by selecting **Start** > **Settings** > **Control Panel** > **Network and Internet Connections**.

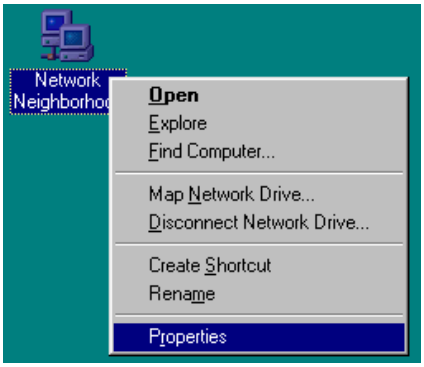
In the **Network Connections** folder, double-click the connection icon for your adapter. Then the **Local Area Connection Properties** window appears.

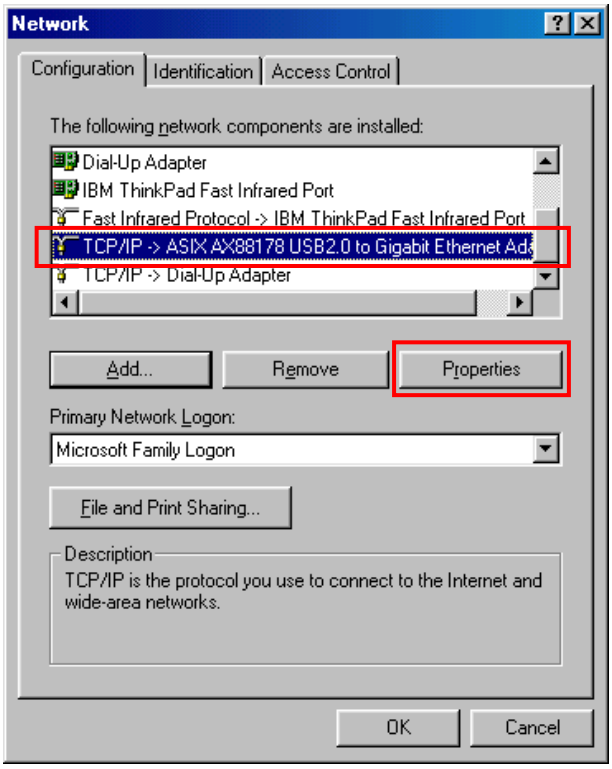



Local Area Connection 3 Properties
General Authentication Advanced
Connect using:
ASIX AX88178 USB2.0 to Gigabit Ethernet Adapter
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install... Uninstall Properties
Description
Allows your computer to access resources on a Microsoft network.
Show icon in notification area when connected
OK Cancel

Windows ME/98SE

Right-click the **Network Neighborhood** icon on the desktop and select **Properties**. Then the **Network** window appears.





3. Specifications

Network Standards	IEEE 802.3, 802.3u, and 802.3ab
Data Bus	USB
LED Indicators	Link, 1000Mbps
Power	Integrates on-chip 3.3V to 2.5V voltage regulator and requires only single power supply: 3.3V
Network Interface	Female RJ45 jack supporting Auto MDIX
Full Duplex	10BaseT, 100BaseTx, 1000BaseT
Half Duplex	10BaseT, 100BaseTx
RAM	Embedded 20KB SRAM for RX packet buffering and 20KB SRAM for TX packet buffering
Operating Temperature	0℃ to 70℃
Operating System Support	Windows 98SE, ME, 2000, XP
Certification	FCC, CE

* Specification is subject to change without further notice.

4. Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received. Including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE Information

For EU (European Union) member users:
According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.